03050105-170

(Pacolet River)

General Description

Watershed 03050105-170 extends through Spartanburg and Cherokee Counties and consists primarily of the ***Pacolet River*** and its tributaries from its origin at the confluence of the North and South Pacolet Rivers to Lawsons Fork Creek. The watershed occupies 73,661 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil-Pacolet series. The erodibility of the soil (K) averages 0.28, and the slope of the terrain averages 11%, with a range of 2-45%. Land use/land cover in the watershed includes: 51.3% forested land, 28.7% agricultural land,14.5% urban land, 3.3% scrub/shrub land, 1.6% water, and 0.6% barren land.

The Pacolet River is formed by the confluence of the North Pacolet River Watershed and the South Pacolet River Watershed. Downstream from the confluence, the Pacolet River accepts drainage from Thompson Creek and forms Lake Blalock (760 acres). Streams draining into Lake Blalock include Buck Creek, Little Buck Creek (Ezell Branch, Cudds Creek, Greenes Lake), and Casey Creek (Carlisle Branch). Downstream from the lake, the Pacolet River accepts drainage from Cherokee Creek (Little Cherokee Creek), Island Creek (Zekial Creek, Double Branch), Pole Bridge Branch, Peters Creek, Cinder Branch, Turkey Hen Branch, Quinn Branch, and Mill Branch. There are numerous lakes and ponds (totaling 978.8 acres) in this watershed and a total of 102.6 stream miles, all classified FW. Cowpens National Battlefield Site is located between Island Creek and Zekial Creek.

Water Quality

Station #	Type	Class	Description
B-028	S	FW	PACOLET R. AT S-42-55, BELOW CONFL. OF N. & S. PACOLET RIVERS
B-783	BIO	FW	BUCK CREEK AT PEACH SHED RD
B-259	S	FW	LITTLE BUCK CREEK AT COUNTY ROAD, 2.3 MI SW OF CHESNEE
B-347	W	FW	LAKE BLALOCK IN FOREBAY NEAR DAM
B-163A	S	FW	PACOLET RIVER AT BRIDGE ON S-42-737, 2.9 MI NW OF COWPENS
B-191	S	FW	POTTER BRANCH ON ROAD 30, BELOW OUTFALL FROM HOUSING PROJECT
B-331	W	FW	PACOLET RIVER AT S-42-59, BEACON LIGHT ROAD IN CLIFTON

Pacolet River - There are three monitoring sites along this section of the Pacolet River. Aquatic life uses are fully supported at the upstream site ***(B-028)***, and significant decreasing trends in five-day biochemical oxygen demand, total phosphorus concentration, and total suspended solids concentration suggest improving conditions for these parameters. Recreational uses are not supported at this site due to fecal coliform bacteria excursions. Aquatic life and recreational uses are fully supported further downstream ***(B-163A);*** however, there is a significant increasing trend in total phosphorus concentration. There is a significant decreasing trend in pH. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. At the downstream site ***(B-331),*** aquatic life uses are fully supported, and recreational uses are partially supported due to fecal coliform bacteria excursions.

Buck Creek (B-783) – Aquatic life uses are fully supported based on macroinvertebrate community data.

Little Buck Creek (B-259) - Aquatic life uses are fully supported. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are not supported due to fecal coliform bacteria excursions.

Lake Taylor Blalock (B-347) - Lake Blalock in Spartanburg County is a 760-acre impoundment on the Pacolet River, with a maximum depth of approximately 49.5 feet (15 m) and an average depth of 5.6 feet (1.7 m). Lake Blalock's watershed comprises 273 square miles (707 km2), which includes Spartanburg Reservoir #1 and Lake Bowen, and extends into North Carolina. Aquatic life and recreational uses are fully supported.

Potter Branch (B-191) - Aquatic life uses are fully supported. There is a significant decreasing trend in pH. A significant increasing trend in dissolved oxygen concentration and significant decreasing trends in five-day biochemical oxygen demand and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are not supported due to fecal coliform bacteria excursions.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM / ***FACILITY NAME*** / ***PERMITTED FLOW @ PIPE (MGD)*** / ***COMMENT***	***NPDES#*** / ***TYPE*** / ***LIMITATION***
PACOLET RIVER SSSD/CLIFTON WWTP PIPE #: 001 FLOW: 0.29	SC0042668 MINOR DOMESTIC EFFLUENT
PACOLET RIVER ARTEVA SPECIALTIES SARL PIPE #: 002 FLOW: 0.800 PIPE #: 004 FLOW: 0.061 PIPE #: 010 FLOW: 0.216 WQL FOR DO,TRC	SC0002798 MAJOR INDUSTRIAL EFFLUENT EFFLUENT WATER QUALITY
PACOLET RIVER SSSD/TOWN OF COWPENS/PACOLET RIVER PIPE #: 001 FLOW: 1.5 WQL FOR TRC	SC0045624 MAJOR DOMESTIC WATER QUALITY
PROPOSED PACOLET RIVER SSSD/FAIRFOREST REGIONAL WWTF PIPE #: 001 FLOW: 30.0	SC0020435 MAJOR DOMESTIC WQL FOR TRC, NH3N
PACOLET RIVER TRIBUTARY OMEGA CHEMICALS, INC. PIPE #: 001 FLOW: 1.12	SCG250055 MINOR INDUSTRIAL EFFLUENT

CHEROKEE CREEK SAXONIA-FRANKE OF AMERICA, INC. PIPE #: 001 FLOW: 0.003	SCG250176 MINOR INDUSTRIAL EFFLUENT
CHEROKEE CREEK ARTEVA SPECIALTIES SARL PIPE #: 001 FLOW: 0.08	SC0002798 MAJOR INDUSTRIAL EFFLUENT
LITTLE CHEROKEE CREEK SPARTANBURG/LAKE BLALOCK WTP PIPE #: 001 FLOW: M/R	SCG645010 MINOR DOMESTIC EFFLUENT
LITTLE BUCK CREEK CITY OF CHESNEE/MAIN PLANT WWTP PIPE #: 001 FLOW: 0.500 WQL FOR NH3N	SC0025763 MINOR DOMESTIC WATER QUALITY
PETERS CREEK RR DONNELLEY & SONS CO. PIPE #: 001 FLOW: 0.1202 WQL FOR TRC; NH3N IN SUMMER & WINTER	SC0036102 MINOR INDUSTRIAL WATER QUALITY
PETERS CREEK SPECIALTY INDUSTRIAL PRODUCTS PIPE #: 001 FLOW: 0.0097 WQL FOR TRC	SC0037826 MINOR INDUSTRIAL WATER QUALITY
PETERS CREEK SSSD IDLEWOOD SD PIPE #: 001 FLOW: 0.08 WQL FOR TRC,NH3N	SC0030554 MINOR DOMESTIC WATER QUALITY
PETERS CREEK TRIBUTARY AIR LIQUIDE AMERICA CORP. PIPE #: 001 FLOW: M/R	SCG250046 MINOR INDUSTRIAL EFFLUENT
ISLAND CREEK TALL TALES FISH CAMP PIPE #: 001 FLOW: 0.0136	SC0031577 MINOR DOMESTIC EFFLUENT

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME ***FACILITY TYPE***	***PERMIT #*** ***STATUS***
IRENE BISHOP SHORT TERM C&D LANDFILL	422904-1301 ---
DAVID STOLTZ SHORT TERM C&D LANDFILL	422422-1301 ---
HASKELL SEXTON SHORT TERM C&D LANDFILL	422484-1301 ---

J. DAVID MOORE INERT IND. LANDFILL	IWP-224
INDUSTRIAL	---
J DAVID MOORE INERT IND. LANDFILL	CWP-047
CONSTRUCTION	---
HOECHST CELANESE C&D LANDFILL	423312-1201 (SCD056811367)
INDUSTRIAL C&D LANDFILL	---

Land Application Sites

LAND APPLICATION SYSTEM FACILITY NAME	***ND# TYPE***
SPRAYFIELD	ND0074101
SPARTANBURG WATER SYSTEM/SIMMS WTP	DOMESTIC
SPRAYFIELD	ND0077135
SPARTANBURG WATER SYSTEM/LAKE BLALOCK WTP	DOMESTIC

Mining Activities

MINING COMPANY MINE NAME	***PERMIT # MINERAL***
CHAPMAN GRADING & CONCRETE CO., INC.	1081-83
CHAPMAN SAND PLANT #6	SAND

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the City of Chesnee, the Town of Mayo, and portions of the City of Spartanburg and the Town of Cowpens. In addition to Spartanburg area in the lower region of the watershed, growth is associated primarily with Chesnee and Cowpens, both having sewer infrastructure. Industrial growth in particular is expected along the I-85 corridor and major roads with I-85 interchanges.